

SEQUENCE LISTING

<110> CHOO, Qui-Lim
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 SCOTT, Elizabeth
 WEINER, Amy

<120> METHODS AND REAGENTS FOR TREATING, PREVENTING AND DIAGNOSING
 BUNYAVIRUS INFECTION

<130> 21454

<140> US 10/580,050

<141> 2006-05-19

<150> PCT/US04/039333

<151> 2004-11-19

<160> 191

<170> PatentIn version 3.3

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<212> DNA

<213> La Crosse virus

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Ala Lys Ala Ala Leu Ser Arg Lys Pro Glu Arg Lys Ala Asn Pro Lys
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Phe Gly Glu Trp Gln Val Glu Val Ile Asn Asn His Phe Pro Gly Asn
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Arg Asn Asn Pro Ile Gly Asn Asn Asp Leu Thr Ile His Arg Leu Ser
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Gly Tyr Leu Ala Arg Trp Val Leu Asp Gln Tyr Asn Glu Asn Asp Asp

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Glu Ser Asn Gly Val Gly Trp Asp Ser Gly Pro Glu Ile Tyr Leu Ser		
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Leu Thr Ile Gly Ile His Arg Val Lys Gln Gly Met Met Asp Pro Gln		
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<210> 6
<211> 2263
<212> PRT
<213> La Crosse virus

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Arg Asp Ala Cys Val Ala Lys Asp Ile Asp Val Asp Leu Leu Met Ala
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Arg His Asp Tyr Phe Gly Arg Glu Leu Cys Lys Ser Leu Asn Ile Glu

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Tyr	Arg	Asn	Asp	Val	Pro	Phe	Val	Asp	Ile	Ile	Leu	Asp	Ile	Arg	Pro		
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Glu	Val	Asp	Pro	Leu	Thr	Ile	Asp	Ala	Pro	His	Ile	Thr	Pro	Asp	Asn		
65					70					75					80		
Tyr	Leu	Tyr	Ile	Asn	Asn	Val	Leu	Tyr	Ile	Ile	Asp	Tyr	Lys	Val	Ser		
				85					90					95			
Val	Ser	Asn	Glu	Ser	Ser	Val	Ile	Thr	Tyr	Asp	Lys	Tyr	Tyr	Glu	Leu		
			100					105					110				
Thr	Arg	Asp	Ile	Ser	Asp	Arg	Leu	Ser	Ile	Pro	Ile	Glu	Ile	Val	Ile		
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Val	Arg	Ile	Asp	Pro	Val	Ser	Lys	Asp	Leu	His	Ile	Asn	Ser	Asp	Arg		
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Phe	Lys	Glu	Leu	Tyr	Pro	Thr	Ile	Val	Val	Asp	Ile	Asn	Phe	Asn	Gln		
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Phe	Phe	Asp	Leu	Lys	Gln	Leu	Leu	Tyr	Glu	Lys	Phe	Gly	Asp	Asp	Glu		
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Glu	Phe	Leu	Leu	Lys	Val	Ala	His	Gly	Asp	Phe	Thr	Leu	Thr	Ala	Pro		
			180					185					190				
Trp	Cys	Lys	Thr	Gly	Cys	Pro	Glu	Phe	Trp	Lys	His	Pro	Ile	Tyr	Lys		
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Glu	Phe	Lys	Met	Ser	Met	Pro	Val	Pro	Glu	Arg	Arg	Leu	Phe	Glu	Glu		
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Ser	Val	Lys	Phe	Asn	Ala	Tyr	Glu	Ser	Glu	Arg	Trp	Asn	Thr	Asn	Leu		
225					230					235					240		
Val	Lys	Ile	Arg	Glu	Tyr	Thr	Lys	Lys	Asp	Tyr	Ser	Glu	His	Ile	Ser		
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Lys	Ser	Ala	Lys	Asn	Ile	Phe	Leu	Ala	Ser	Gly	Phe	Tyr	Lys	Gln	Pro		
			260					265					270				
Asn	Lys	Asn	Glu	Ile	Ser	Glu	Gly	Trp	Thr	Leu	Met	Val	Glu	Arg	Val		
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Gln	Asp	Gln	Arg	Glu	Ile	Ser	Lys	Ser	Leu	His	Asp	Gln	Lys	Pro	Ser		
	290					295					300						
Ile	His	Phe	Ile	Trp	Gly	Ala	His	Asn	Pro	Gly	Asn	Ser	Asn	Asn	Ala		
305					310					315					320		
Thr	Phe	Lys	Leu	Ile	Leu	Leu	Ser	Lys	Ser	Leu	Gln	Ser	Ile	Lys	Gly		
				325					330					335			

Ile	Ser	Thr	Tyr	Thr	Glu	Ala	Phe	Lys	Ser	Leu	Gly	Lys	Met	Met	Asp	340	345	350	
Ile	Gly	Asp	Lys	Ala	Ile	Glu	Tyr	Glu	Glu	Phe	Cys	Met	Ser	Leu	Lys	355	360	365	
Ser	Lys	Ala	Arg	Ser	Ser	Trp	Lys	Gln	Ile	Met	Asn	Lys	Lys	Leu	Glu	370	375	380	
Pro	Lys	Gln	Ile	Asn	Asn	Ala	Leu	Val	Leu	Trp	Glu	Gln	Gln	Phe	Met	385	390	395	400
Val	Asn	Asn	Asp	Leu	Ile	Asp	Lys	Ser	Glu	Lys	Leu	Lys	Leu	Phe	Lys	405	410	415	
Asn	Phe	Cys	Gly	Ile	Gly	Lys	His	Lys	Gln	Phe	Lys	Asn	Lys	Met	Leu	420	425	430	
Glu	Asp	Leu	Glu	Val	Ser	Lys	Pro	Lys	Ile	Leu	Asp	Phe	Asp	Asp	Ala	435	440	445	
Asn	Met	Tyr	Leu	Ala	Ser	Leu	Thr	Met	Met	Glu	Gln	Ser	Lys	Lys	Ile	450	455	460	
Leu	Ser	Lys	Ser	Asn	Gly	Leu	Lys	Pro	Asp	Asn	Phe	Ile	Leu	Asn	Glu	465	470	475	480
Phe	Gly	Ser	Lys	Ile	Lys	Asp	Ala	Asn	Lys	Glu	Thr	Tyr	Asp	Asn	Met	485	490	495	
His	Lys	Ile	Phe	Glu	Thr	Arg	Tyr	Trp	Gln	Cys	Ile	Ser	Asp	Phe	Ser	500	505	510	
Thr	Leu	Met	Lys	Asn	Ile	Leu	Ser	Val	Ser	Gln	Tyr	Asn	Arg	His	Asn	515	520	525	
Thr	Phe	Arg	Ile	Ala	Met	Cys	Ala	Asn	Asn	Asn	Val	Phe	Ala	Ile	Val	530	535	540	
Phe	Pro	Ser	Ala	Asp	Ile	Lys	Thr	Lys	Lys	Ala	Thr	Val	Val	Tyr	Ser	545	550	555	560
Ile	Ile	Val	Leu	His	Lys	Glu	Glu	Glu	Asn	Ile	Phe	Asn	Pro	Gly	Cys	565	570	575	
Leu	His	Gly	Thr	Phe	Lys	Cys	Met	Asn	Gly	Tyr	Ile	Ser	Ile	Ser	Arg	580	585	590	
Ala	Ile	Arg	Leu	Asp	Lys	Glu	Arg	Cys	Gln	Arg	Ile	Val	Ser	Ser	Pro	595	600	605	
Gly	Leu	Phe	Leu	Thr	Thr	Cys	Leu	Leu	Phe	Lys	His	Asp	Asn	Pro	Thr	610	615	620	

Leu Val Met Ser Asp Ile Met Asn Phe Ser Ile Tyr Thr Ser Leu Ser		
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Ile Thr Lys Ser Val Leu Ser Leu Thr Glu Pro Ala Arg Tyr Met Ile		
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Met Asn Ser Leu Ala Ile Ser Ser Asn Val Lys Asp Tyr Ile Ala Glu		
	660	665 670
Lys Phe Ser Pro Tyr Thr Lys Thr Leu Phe Ser Val Tyr Met Thr Arg		
	675	680 685
Leu Ile Lys Asn Ala Cys Phe Asp Ala Tyr Asp Gln Arg Gln Arg Val		
	690	695 700
Gln Leu Arg Asp Ile Tyr Leu Ser Asp Tyr Asp Ile Thr Gln Lys Gly		
705	710	715 720
Ile Lys Asp Asn Arg Glu Leu Thr Ser Ile Trp Phe Pro Gly Ser Val		
	725	730 735
Thr Leu Lys Glu Tyr Leu Thr Gln Ile Tyr Leu Pro Phe Tyr Phe Asn		
	740	745 750
Ala Lys Gly Leu His Glu Lys His His Val Met Val Asp Leu Ala Lys		
	755	760 765
Thr Ile Leu Glu Ile Glu Cys Glu Gln Arg Glu Asn Ile Lys Glu Ile		
770	775	780
Trp Ser Thr Asn Cys Thr Lys Gln Thr Val Asn Leu Lys Ile Leu Ile		
785	790	795 800
His Ser Leu Cys Lys Asn Leu Leu Ala Asp Thr Ser Arg His Asn His		
	805	810 815
Leu Arg Asn Arg Ile Glu Asn Arg Asn Asn Phe Arg Arg Ser Ile Thr		
	820	825 830
Thr Ile Ser Thr Phe Thr Ser Ser Lys Ser Cys Leu Lys Ile Gly Asp		
	835	840 845
Phe Arg Lys Glu Lys Glu Leu Gln Ser Val Lys Gln Lys Lys Ile Leu		
850	855	860
Glu Val Gln Ser Arg Lys Met Arg Leu Ala Asn Pro Met Phe Val Thr		
865	870	875 880
Asp Glu Gln Val Cys Leu Glu Val Gly His Cys Asn Tyr Glu Met Leu		
	885	890 895
Arg Asn Ala Met Pro Asn Tyr Thr Asp Tyr Ile Ser Thr Lys Val Phe		
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Asp Arg Leu Tyr Glu Leu Leu Asp Lys Gly Val Leu Thr Asp Lys Pro		

915	920	925
Val Ile Glu Gln Ile Met Asp Met Met Val Asp His Lys Lys Phe Tyr 930 935 940		
Phe Thr Phe Phe Asn Lys Gly Gln Lys Thr Ser Lys Asp Arg Glu Ile 945 950 955 960		
Phe Val Gly Glu Tyr Glu Ala Lys Met Cys Met Tyr Ala Val Glu Arg 965 970 975		
Ile Ala Lys Glu Arg Cys Lys Leu Asn Pro Asp Glu Met Ile Ser Glu 980 985 990		
Pro Gly Asp Gly Lys Leu Lys Val Leu Glu Gln Lys Ser Glu Gln Glu 995 1000 1005		
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Asp Glu Ala Ile Glu Ala Leu Ala Ala Glu Gly Tyr Glu Ser Asn 1025 1030 1035		
Leu Glu Lys Ile Glu Lys Leu Ser Leu Gly Lys Ala Lys Gly Leu 1040 1045 1050		
Lys Met Glu Ile Asn Ala Asp Met Ser Lys Trp Ser Ala Gln Asp 1055 1060 1065		
Val Phe Tyr Lys Tyr Phe Trp Leu Ile Ala Leu Asp Pro Ile Leu 1070 1075 1080		
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Leu Asp Gln Lys Val Ala Tyr Gln Asn Asp Ile Ile Ala Thr Met 1115 1120 1125		
Thr Asn Gln Leu Asn Ser Asn Thr Val Leu Ile Lys Arg Asn Trp 1130 1135 1140		
Leu Gln Gly Asn Phe Asn Tyr Thr Ser Ser Tyr Val His Ser Cys 1145 1150 1155		
Ala Met Ser Val Tyr Lys Glu Ile Leu Lys Glu Ala Ile Thr Leu 1160 1165 1170		
Leu Asp Gly Ser Ile Leu Val Asn Ser Leu Val His Ser Asp Asp 1175 1180 1185		
Asn Gln Thr Ser Ile Thr Ile Val Gln Asp Lys Met Glu Asn Asp 1190 1195 1200		

Lys Ile	Ile Asp Phe Ala Met	Lys Glu Phe Glu Arg	Ala Cys Leu
1205	1210	1215	
Thr Phe	Gly Cys Gln Ala Asn	Met Lys Lys Thr Tyr	Val Thr Asn
1220	1225	1230	
Cys Ile	Lys Glu Phe Val Ser	Leu Phe Asn Leu Tyr	Gly Glu Pro
1235	1240	1245	
Phe Ser	Ile Tyr Gly Arg Phe	Leu Leu Thr Ser Val	Gly Asp Cys
1250	1255	1260	
Ala Tyr	Ile Gly Pro Tyr Glu	Asp Leu Ala Ser Arg	Ile Ser Ser
1265	1270	1275	
Ala Gln	Thr Ala Ile Lys His	Gly Cys Pro Pro Ser	Leu Ala Trp
1280	1285	1290	
Val Ser	Ile Ala Ile Ser His	Trp Met Thr Ser Leu	Thr Tyr Asn
1295	1300	1305	
Met Leu	Pro Gly Gln Ser Asn	Asp Pro Ile Asp Tyr	Phe Pro Ala
1310	1315	1320	
Glu Asn	Arg Lys Asp Ile Pro	Ile Glu Leu Asn Gly	Val Leu Asp
1325	1330	1335	
Ala Pro	Leu Ser Met Ile Ser	Thr Val Gly Leu Glu	Ser Gly Asn
1340	1345	1350	
Leu Tyr	Phe Leu Ile Lys Leu	Leu Ser Lys Tyr Thr	Pro Val Met
1355	1360	1365	
Gln Lys	Arg Glu Ser Val Val	Asn Gln Ile Ala Glu	Val Lys Asn
1370	1375	1380	
Trp Lys	Val Glu Asp Leu Thr	Asp Asn Glu Ile Phe	Arg Leu Lys
1385	1390	1395	
Ile Leu	Arg Tyr Leu Val Leu	Asp Ala Glu Met Asp	Pro Ser Asp
1400	1405	1410	
Ile Met	Gly Glu Thr Ser Asp	Met Arg Gly Arg Ser	Ile Leu Thr
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Pro Arg	Lys Phe Thr Thr Ala	Gly Ser Leu Arg Lys	Leu Tyr Ser
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Phe Ser	Lys Tyr Gln Asp Arg	Leu Ser Ser Pro Gly	Gly Met Val
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Lys Gly	Glu Asp Met Lys Asp	Tyr Met Glu Ser Val	Ile Phe Arg
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Tyr Asn	Ser Lys Arg Phe Lys	Glu Ser Leu Ser Ile	Gln Asn Pro
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Ala Gln	Leu Phe Ile Glu Gln	Ile Leu Phe Ser His	Lys Pro Ile
1505	1510	1515	
Ile Asp	Phe Ser Gly Ile Arg	Asp Lys Tyr Ile Asn	Leu His Asp
1520	1525	1530	
Ser Arg	Ala Leu Glu Lys Glu	Pro Asp Ile Leu Gly	Lys Val Thr
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Phe Thr	Glu Ala Tyr Arg Leu	Leu Met Arg Asp Leu	Ser Ser Leu
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Glu Leu	Thr Asn Asp Asp Ile	Gln Val Ile Tyr Ser	Tyr Ile Ile
1565	1570	1575	
Leu Asn	Asp Pro Met Met Ile	Thr Ile Ala Asn Thr	His Ile Leu
1580	1585	1590	
Ser Ile	Tyr Gly Ser Pro Gln	Arg Arg Met Gly Met	Ser Cys Ser
1595	1600	1605	
Thr Met	Pro Glu Phe Arg Asn	Leu Lys Leu Ile His	His Ser Pro
1610	1615	1620	
Ala Leu	Val Leu Arg Ala Tyr	Ser Lys Asn Asn Pro	Asp Ile Gln
1625	1630	1635	
Gly Ala	Asp Pro Thr Glu Met	Ala Arg Asp Leu Val	His Leu Lys
1640	1645	1650	
Glu Phe	Val Glu Asn Thr Asn	Leu Glu Glu Lys Met	Lys Val Arg
1655	1660	1665	
Ile Ala	Ile Asn Glu Ala Glu	Lys Gly Gln Arg Asp	Ile Val Phe
1670	1675	1680	
Glu Leu	Lys Glu Met Thr Arg	Phe Tyr Gln Val Cys	Tyr Glu Tyr
1685	1690	1695	
Val Lys	Ser Thr Glu His Lys	Ile Lys Val Phe Ile	Leu Pro Thr
1700	1705	1710	
Lys Ser	Tyr Thr Thr Thr Asp	Phe Cys Ser Leu Met	Gln Gly Asn
1715	1720	1725	
Leu Ile	Lys Asp Lys Glu Trp	Tyr Thr Val His Tyr	Leu Lys Gln
1730	1735	1740	
Ile Leu	Ser Gly Gly His Lys	Ala Ile Met Gln His	Asn Ala Thr

1745	1750	1755
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1775	1780	1785
Gln Leu Ile Ile Asp Glu Phe	Ser Tyr Lys Asp Val	Lys Val Ser
1790	1795	1800
Lys Leu Tyr Asp Ile Ile Lys	Asn Gly Tyr Asn Arg	Thr Asp Phe
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Ile Pro Leu Leu Phe Arg Thr	Gly Asp Leu Arg Gln	Ala Asp Leu
1820	1825	1830
Asp Lys Tyr Asp Ala Met Lys	Ser His Glu Arg Val	Thr Trp Asn
1835	1840	1845
Asp Trp Gln Thr Ser Arg His	Leu Asp Met Gly Ser	Ile Asn Leu
1850	1855	1860
Thr Ile Thr Gly Tyr Asn Arg	Ser Ile Thr Ile Ile	Gly Glu Asp
1865	1870	1875
Asn Lys Leu Thr Tyr Ala Glu	Leu Cys Leu Thr Arg	Lys Thr Pro
1880	1885	1890
Glu Asn Ile Thr Ile Ser Gly	Arg Lys Leu Leu Gly	Ala Arg His
1895	1900	1905
Gly Leu Lys Phe Glu Asn Met	Ser Lys Ile Gln Thr	Tyr Pro Gly
1910	1915	1920
Asn Tyr Tyr Ile Thr Tyr Arg	Lys Lys Asp Arg His	Gln Phe Val
1925	1930	1935
Tyr Gln Ile His Ser His Glu	Ser Ile Thr Arg Arg	Asn Glu Glu
1940	1945	1950
His Met Ala Ile Arg Thr Arg	Ile Tyr Asn Glu Ile	Thr Pro Val
1955	1960	1965
Cys Val Val Asn Val Ala Glu	Val Asp Gly Asp Gln	Arg Ile Leu
1970	1975	1980
Ile Arg Ser Leu Asp Tyr Leu	Asn Asn Asp Ile Phe	Ser Leu Ser
1985	1990	1995
Arg Ile Lys Val Gly Leu Asp	Glu Phe Ala Thr Ile	Lys Lys Ala
2000	2005	2010
His Phe Ser Lys Met Val Ser	Phe Glu Gly Pro Pro	Ile Lys Thr
2015	2020	2025

Gly	Leu	Leu	Asp	Leu	Thr	Glu	Leu	Met	Lys	Ser	Gln	Asp	Leu	Leu
2030						2035					2040			
Asn	Leu	Asn	Tyr	Asp	Asn	Ile	Arg	Asn	Ser	Asn	Leu	Ile	Ser	Phe
2045						2050					2055			
Ser	Lys	Leu	Ile	Cys	Cys	Glu	Gly	Ser	Asp	Asn	Ile	Asn	Asp	Gly
2060						2065					2070			
Leu	Glu	Phe	Leu	Ser	Asp	Asp	Pro	Met	Asn	Phe	Thr	Glu	Gly	Glu
2075						2080					2085			
Ala	Ile	His	Ser	Thr	Pro	Ile	Phe	Asn	Ile	Tyr	Tyr	Ser	Lys	Arg
2090						2095					2100			
Gly	Glu	Arg	His	Met	Thr	Tyr	Arg	Asn	Ala	Ile	Lys	Leu	Leu	Ile
2105						2110					2115			
Glu	Arg	Glu	Thr	Lys	Ile	Phe	Glu	Glu	Ala	Phe	Thr	Phe	Ser	Glu
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Asn	Gly	Phe	Ile	Ser	Pro	Glu	Asn	Leu	Gly	Cys	Leu	Glu	Ala	Val
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Val	Ser	Leu	Ile	Lys	Leu	Leu	Lys	Thr	Asn	Glu	Trp	Ser	Thr	Val
2150						2155					2160			
Ile	Asp	Lys	Cys	Ile	His	Ile	Cys	Leu	Ile	Lys	Asn	Gly	Met	Asp
2165						2170					2175			
His	Met	Tyr	His	Ser	Phe	Asp	Val	Pro	Lys	Cys	Phe	Met	Gly	Asn
2180						2185					2190			
Pro	Ile	Thr	Arg	Asp	Met	Asn	Trp	Met	Met	Phe	Arg	Glu	Phe	Ile
2195						2200					2205			
Asn	Ser	Leu	Pro	Gly	Thr	Asp	Ile	Pro	Pro	Trp	Asn	Val	Met	Thr
2210						2215					2220			
Glu	Asn	Phe	Lys	Lys	Lys	Cys	Ile	Ala	Leu	Ile	Asn	Ser	Lys	Leu
2225						2230					2235			
Glu	Thr	Gln	Arg	Asp	Phe	Ser	Glu	Phe	Thr	Lys	Leu	Met	Lys	Lys
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2255						2260								

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<220>
 <223> Antisense primer derived from M segment of LACV genome

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<220>
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<210> 12
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 <220>
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 <210> 14
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 <220>
 <223> Antisense primer derived from L segment of LACV genome

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 <210> 15
 <211> 25
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 <220>
 <223> Probe derived from L segment of LACV genome

 <400> 15
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 <210> 16
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 <220>
 <223> Synthetic oligonucleotide specific for LACV sequence

<400> 16
catgaggcat tcaaattagg ttcta

25

<210> 17
<211> 174
<212> PRT
<213> La Crosse virus

<400> 17
Val Met Cys Lys Ser Lys Gly Pro Ala Ser Ile Leu Ser Ile Ile Thr
1 5 10 15
Ala Val Leu Val Leu Thr Phe Val Thr Pro Ile Asn Ser Met Val Leu
20 25 30
Gly Glu Ser Lys Glu Thr Phe Glu Leu Glu Asp Leu Pro Asp Asp Met
35 40 45
Leu Glu Met Ala Ser Arg Ile Asn Ser Tyr Tyr Leu Thr Cys Ile Leu
50 55 60
Asn Tyr Ala Val Ser Trp Gly Leu Val Ile Ile Gly Leu Leu Ile Gly
65 70 75 80
Leu Leu Phe Lys Lys Tyr Gln His Arg Phe Leu Asn Val Tyr Ala Met
85 90 95
Tyr Cys Glu Glu Cys Asp Met Tyr His Asp Lys Ser Gly Leu Lys Arg
100 105 110
His Gly Asp Phe Thr Asn Lys Cys Arg Gln Cys Thr Cys Gly Gln Tyr
115 120 125
Glu Asp Ala Ala Gly Leu Met Ala His Arg Lys Thr Tyr Asn Cys Leu
130 135 140
Val Gln Tyr Lys Ala Lys Trp Met Met Asn Phe Leu Ile Ile Tyr Ile
145 150 155 160
Phe Leu Ile Leu Ile Lys Asp Ser Ala Ile Val Val Gln Ala
165 170

<210> 18
<211> 968
<212> PRT
<213> La Crosse virus

<400> 18
Ala Gly Thr Asp Phe Thr Thr Cys Leu Glu Thr Glu Ser Ile Asn Trp
1 5 10 15
Asn Cys Thr Gly Pro Phe Leu Asn Leu Gly Asn Cys Gln Lys Gln Gln

20					25					30					
Lys	Lys	Glu	Pro	Tyr	Thr	Asn	Ile	Ala	Thr	Gln	Leu	Lys	Gly	Leu	Lys
		35					40					45			
Ala	Ile	Ser	Val	Leu	Asp	Val	Pro	Ile	Ile	Thr	Gly	Ile	Pro	Asp	Asp
		50				55					60				
Ile	Ala	Gly	Ala	Leu	Arg	Tyr	Ile	Glu	Glu	Lys	Glu	Asp	Phe	His	Val
65					70					75					80
Gln	Leu	Thr	Ile	Glu	Tyr	Ala	Met	Leu	Ser	Lys	Tyr	Cys	Asp	Tyr	Tyr
			85						90					95	
Thr	Gln	Phe	Ser	Asp	Asn	Ser	Gly	Tyr	Ser	Gln	Thr	Thr	Trp	Arg	Val
			100					105					110		
Tyr	Leu	Arg	Ser	His	Asp	Phe	Glu	Ala	Cys	Ile	Leu	Tyr	Pro	Asn	Gln
		115					120					125			
His	Phe	Cys	Arg	Cys	Val	Lys	Asn	Gly	Glu	Lys	Cys	Ser	Ser	Ser	Asn
	130					135					140				
Trp	Asp	Phe	Ala	Asn	Glu	Met	Lys	Asp	Tyr	Tyr	Ser	Gly	Lys	Gln	Thr
145					150					155					160
Lys	Phe	Asp	Lys	Asp	Leu	Asn	Leu	Ala	Leu	Thr	Ala	Leu	His	His	Ala
			165					170					175		
Phe	Arg	Gly	Thr	Ser	Ser	Ala	Tyr	Ile	Ala	Thr	Met	Leu	Ser	Lys	Lys
			180					185					190		
Ser	Asn	Asp	Asp	Leu	Ile	Ala	Tyr	Thr	Asn	Lys	Ile	Lys	Thr	Lys	Phe
		195					200					205			
Pro	Gly	Asn	Ala	Leu	Leu	Lys	Ala	Ile	Ile	Asp	Tyr	Ile	Ala	Tyr	Met
	210					215					220				
Lys	Ser	Leu	Pro	Gly	Met	Ala	Asn	Phe	Lys	Tyr	Asp	Glu	Phe	Trp	Asp
225					230					235					240
Glu	Leu	Leu	Tyr	Lys	Pro	Asn	Pro	Ala	Lys	Ala	Ser	Asn	Leu	Ala	Arg
			245					250					255		
Gly	Lys	Glu	Ser	Ser	Tyr	Asn	Phe	Lys	Leu	Ala	Ile	Ser	Ser	Lys	Ser
			260				265						270		
Ile	Lys	Thr	Cys	Lys	Asn	Val	Lys	Asp	Val	Ala	Cys	Leu	Ser	Pro	Arg
		275					280					285			
Ser	Gly	Ala	Ile	Tyr	Ala	Ser	Ile	Ile	Ala	Cys	Gly	Glu	Pro	Asn	Gly
		290				295					300				
Pro	Ser	Val	Tyr	Arg	Lys	Pro	Ser	Gly	Gly	Val	Phe	Gln	Ser	Ser	Thr
305					310					315					320

Asp Arg Ser Ile Tyr Cys Leu Leu Asp Ser His Cys Leu Glu Glu Phe
 325 330 335
 Glu Ala Ile Gly Gln Glu Glu Leu Asp Ala Val Lys Lys Ser Lys Cys
 340 345 350
 Trp Glu Ile Glu Tyr Pro Asp Val Lys Leu Ile Gln Glu Gly Asp Gly
 355 360 365
 Thr Lys Ser Cys Arg Met Lys Asp Ser Gly Asn Cys Asn Val Ala Thr
 370 375 380
 Asn Arg Trp Pro Val Ile Gln Cys Glu Asn Asp Lys Phe Tyr Tyr Ser
 385 390 395 400
 Glu Leu Gln Lys Asp Tyr Asp Lys Ala Gln Asp Ile Gly His Tyr Cys
 405 410 415
 Leu Ser Pro Gly Cys Thr Thr Val Arg Tyr Pro Ile Asn Pro Lys His
 420 425 430
 Ile Ser Asn Cys Asn Trp Gln Val Ser Arg Ser Ser Ile Ala Lys Ile
 435 440 445
 Asp Val His Asn Ile Glu Asp Ile Glu Gln Tyr Lys Lys Ala Ile Thr
 450 455 460
 Gln Lys Leu Gln Thr Ser Leu Ser Leu Phe Lys Tyr Ala Lys Thr Lys
 465 470 475 480
 Asn Leu Pro His Ile Lys Pro Ile Tyr Lys Tyr Ile Thr Ile Glu Gly
 485 490 495
 Thr Glu Thr Ala Glu Gly Ile Glu Ser Ala Tyr Ile Glu Ser Glu Val
 500 505 510
 Pro Ala Leu Ala Gly Thr Ser Ile Gly Phe Lys Ile Asn Ser Lys Glu
 515 520 525
 Gly Lys His Leu Leu Asp Val Ile Ala Tyr Val Lys Ser Ala Ser Tyr
 530 535 540
 Ser Ser Val Tyr Thr Lys Leu Tyr Ser Thr Gly Pro Thr Ser Gly Ile
 545 550 555 560
 Asn Thr Lys His Asp Glu Leu Cys Thr Gly Pro Cys Pro Ala Asn Ile
 565 570 575
 Asn His Gln Val Gly Trp Leu Thr Phe Ala Arg Glu Arg Thr Ser Ser
 580 585 590
 Trp Gly Cys Glu Glu Phe Gly Cys Leu Ala Val Ser Asp Gly Cys Val
 595 600 605

Phe	Gly	Ser	Cys	Gln	Asp	Ile	Ile	Lys	Glu	Glu	Leu	Ser	Val	Tyr	Arg	610	615	620	
Lys	Glu	Thr	Glu	Glu	Val	Thr	Asp	Val	Glu	Leu	Cys	Leu	Thr	Phe	Ser	625	630	635	640
Asp	Lys	Thr	Tyr	Cys	Thr	Asn	Leu	Asn	Pro	Val	Thr	Pro	Ile	Ile	Thr	645	650	655	
Asp	Leu	Phe	Glu	Val	Gln	Phe	Lys	Thr	Val	Glu	Thr	Tyr	Ser	Leu	Pro	660	665	670	
Arg	Ile	Val	Ala	Val	Gln	Asn	His	Glu	Ile	Lys	Ile	Gly	Gln	Ile	Asn	675	680	685	
Asp	Leu	Gly	Val	Tyr	Ser	Lys	Gly	Cys	Gly	Asn	Val	Gln	Lys	Val	Asn	690	695	700	
Gly	Thr	Ile	Tyr	Gly	Asn	Gly	Val	Pro	Arg	Phe	Asp	Tyr	Leu	Cys	His	705	710	715	720
Leu	Ala	Ser	Arg	Lys	Glu	Val	Ile	Val	Arg	Lys	Cys	Phe	Asp	Asn	Asp	725	730	735	
Tyr	Gln	Ala	Cys	Lys	Phe	Leu	Gln	Ser	Pro	Ala	Ser	Tyr	Arg	Leu	Glu	740	745	750	
Glu	Asp	Ser	Gly	Thr	Val	Thr	Ile	Ile	Asp	Tyr	Lys	Lys	Ile	Leu	Gly	755	760	765	
Thr	Ile	Lys	Met	Lys	Ala	Ile	Leu	Gly	Asp	Val	Lys	Tyr	Lys	Thr	Phe	770	775	780	
Ala	Asp	Ser	Val	Asp	Ile	Thr	Ala	Glu	Gly	Ser	Cys	Thr	Gly	Cys	Ile	785	790	795	800
Asn	Cys	Phe	Glu	Asn	Ile	His	Cys	Glu	Leu	Thr	Leu	His	Thr	Thr	Ile	805	810	815	
Glu	Ala	Ser	Cys	Pro	Ile	Lys	Ser	Ser	Cys	Thr	Val	Phe	His	Asp	Arg	820	825	830	
Ile	Leu	Val	Thr	Pro	Asn	Glu	His	Lys	Tyr	Ala	Leu	Lys	Met	Val	Cys	835	840	845	
Thr	Glu	Lys	Pro	Gly	Asn	Thr	Leu	Thr	Ile	Lys	Val	Cys	Asn	Thr	Lys	850	855	860	
Val	Glu	Ala	Ser	Met	Ala	Leu	Val	Asp	Ala	Lys	Pro	Ile	Ile	Glu	Leu	865	870	875	880
Ala	Pro	Val	Asp	Gln	Thr	Ala	Tyr	Ile	Arg	Glu	Lys	Asp	Glu	Arg	Cys	885	890	895	
Lys	Thr	Trp	Met	Cys	Arg	Val	Arg	Asp	Glu	Gly	Leu	Gln	Val	Ile	Leu				

900 905 910
 Glu Pro Phe Lys Asn Leu Phe Gly Ser Tyr Ile Gly Ile Phe Tyr Thr
 915 920 925
 Phe Ile Ile Ser Ile Val Val Leu Leu Val Ile Ile Tyr Val Leu Leu
 930 935 940
 Pro Ile Cys Phe Lys Leu Arg Asp Thr Leu Arg Lys His Glu Asp Ala
 945 950 955 960
 Tyr Lys Arg Glu Met Lys Ile Arg
 965

<210> 19
 <211> 92
 <212> PRT
 <213> La Crosse virus

<400> 19
 Met Met Ser His Gln Gln Val Gln Met Asp Leu Ile Leu Met Gln Gly
 1 5 10 15
 Ile Trp Thr Ser Val Leu Lys Met Gln Asn Tyr Ser Thr Leu Leu Gln
 20 25 30
 Leu Gly Ser Ser Ser Ser Met Pro Gln Arg Pro Arg Leu Leu Ser Arg
 35 40 45
 Val Ser Gln Arg Gly Arg Leu Thr Leu Asn Leu Glu Ser Gly Arg Trp
 50 55 60
 Arg Leu Ser Ile Ile Ile Phe Leu Glu Thr Gly Thr Thr Gln Leu Val
 65 70 75 80
 Thr Thr Ile Leu Pro Ser Thr Asp Tyr Leu Gly Ile
 85 90

<210> 20
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 20
 ttgtacaagc tgctggaact gactt

<210> 21
 <211> 22
 <212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from M segment of the LACV genome

<400> 21

tgtggtgccc gctatgatac tt

22

<210> 22

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from M segment of the LACV genome

<400> 22

tgtggtgccc gctatgatac

20

<210> 23

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from M segment of the LACV genome

<400> 23

ctgtggtgcc cgctatgata c

21

<210> 24

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from M segment of the LACV genome

<400> 24

ctgtggtgcc cgctatgata

20

<210> 25

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from M segment of the LACV genome

<400> 25

tctgtggtgc ccgctatgat a

21

<210> 26
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 26
 tctgtggtgc ccgctatgat 20

<210> 27
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 27
 gtgtctgtgg tgcccgtat 20

<210> 28
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 28
 agacagtggc actgtgacca taa 23

<210> 29
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 29
 agacagtggc actgtgacca taat 24

<210> 30
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 30
 aagacagtgg cactgtgacc ata 23

<210> 31
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 31
 aagacagtgg cactgtgacc ataa 24

<210> 32
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 32
 aagacagtgg cactgtgacc ataat 25

<210> 33
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 33
 gaagacagtg gcactgtgac cata 24

<210> 34
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 34
 agaagacagt ggcactgtga ccata 25

<210>	35	
<211>	25	
<212>	DNA	
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<223>	Probe derived from M segment of the LACV genome	
<400>	35	
	ctgggccatt tttgaacctc gggaa	25
<210>	36	
<211>	24	
<212>	DNA	
<213>	Artificial Sequence	
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<223>	Probe derived from M segment of the LACV genome	
<400>	36	
	ctgggccatt tttgaacctc ggga	24
<210>	37	
<211>	24	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Probe derived from M segment of the LACV genome	
<400>	37	
	cactggggcca tttttgaacc tcgg	24
<210>	38	
<211>	23	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Probe derived from M segment of the LACV genome	
<400>	38	
	ctgggccatt tttgaacctc ggg	23
<210>	39	
<211>	25	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Probe derived from M segment of the LACV genome	

<400> 39
tgaacctcgg gaattgccaa aagca 25

<210> 40
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 40
tgcactgggc catttttgaa cctcg 25

<210> 41
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 41
actgggccat ttttgaacct cggga 25

<210> 42
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 42
actgggccat ttttgaacct cggg 24

<210> 43
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 43
tgggccattt ttgaacctcg gga 23

<210> 44
<211> 25

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<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 44
tgggccattt ttgaacctcg ggaat 25

<210> 45
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 45
cactgggcca tttttgaacc tcggg 25

<210> 46
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 46
tgggccattt ttgaacctcg ggaa 24

<210> 47
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 47
tgtgcaagtc gaaagggcct gca 23

<210> 48
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 48

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catgtgcaag tcgaaagggc ctgc 24

<210> 49
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 49
tcatgtgcaa gtcgaaaggg cctg 24

<210> 50
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 50
atgtgcaagt cgaaagggcc tgca 24

<210> 51
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 51
tcatgtgcaa gtcgaaaggg cctgc 25

<210> 52
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 52
taaccgcaga agggcatgc accg 24

<210> 53
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

 <400> 53
 ccgcagaagg gtcatgcacc g 21

 <210> 54
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 54
 aaccgcagaa gggatcatgca ccg 23

 <210> 55
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 55
 ataaccgcag aaggatcatg caccg 25

 <210> 56
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 56
 accgcagaag ggatcatgcac cg 22

 <210> 57
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 57
 cagaagggtc atgcaccggc tgt 23

<210> 58
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 58
 cgcagaaggg tcatgcaccg g 21

 <210> 59
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer derived from M segment of the LACV genome

 <400> 59
 agtcccttta actgagttgc aatgt 25

 <210> 60
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer derived from M segment of the LACV genome

 <400> 60
 aaggттаага ccagtaccgc agtaa 25

 <210> 61
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer derived from M segment of the LACV genome

 <400> 61
 gtgtgcaacg ttaattcgca at 22

 <210> 62
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>

<223> Reverse primer derived from M segment of the LACV genome

<400> 62

tgtggtgtgc aacgttaatt cg

22

<210> 63

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from M segment of the LACV genome

<400> 63

tcaattgtgg tgtgcaacgt ta

22

<210> 64

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from M segment of the LACV genome

<400> 64

tcaattgtgg tgtgcaacgt taa

23

<210> 65

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from M segment of the LACV genome

<400> 65

tcaattgtgg tgtgcaacgt t

21

<210> 66

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from M segment of the LACV genome

<400> 66

tcaattgtgg tgtgcaacgt taat

24

<210> 67


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<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 67
tctcagcacg agttgattcag aac
23

<210> 68
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 68
ctcagcacga gttgattcaga aca
23

<210> 69
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 69
tcagcacgag ttgattcagaa caa
23

<210> 70
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 70
tctaccgct gaccattgga at
22

<210> 71
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

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<400> 71
gagtgtgatg tcggatttgg tggt 24

<210> 72
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 72
agtctcagca cgagttgatc agaa 24

<210> 73
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 73
gtctcagcac gagttgatca gaac 24

<210> 74
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 74
tctcagcacg agttgatcag aaca 24

<210> 75
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 75
ctcagcacga gttgatcaga acaa 24

<210> 76
<211> 22
<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from the S segment of the LACV genome

<400> 76

tcagcacgag ttgatcagaa ca

22

<210> 77

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from the S segment of the LACV genome

<400> 77

tctaccgct gaccattgga a

21

<210> 78

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from the S segment of the LACV genome

<400> 78

taccgctga ccattggaat tc

22

<210> 79

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from the S segment of the LACV genome

<400> 79

caagagtgtg atgtcggatt tggt

24

<210> 80

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from the S segment of the LACV genome

<400> 80

aagagtgtga tgtcggattt ggt

23

<210> 81
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from the S segment of the LACV genome

 <400> 81
 cctgatgcag ggtatatgga ctt 23

 <210> 82
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from the S segment of the LACV genome

 <400> 82
 tgcagggtat atggacttct gtgt 24

 <210> 83
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from the S segment of the LACV genome

 <400> 83
 gatgagtctc agcacgagtt gatc 24

 <210> 84
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from the S segment of the LACV genome

 <400> 84
 gagtctcagc acgagttgat cagaa 25

 <210> 85
 <211> 25
 <212> DNA
 <213> Artificial Sequence

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<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 85
agtctcagca cgagttgatc agaac 25

<210> 86
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 86
tctaccgct gaccattgga 20

<210> 87
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 87
ctaccgctg accattggaa t 21

<210> 88
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 88
cgctgaccat tggaattcac a 21

<210> 89
<211> 24
<212> DNA
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